SPL980-20-9-PD

- IR Pigtailed Laser Diode
- 976 nm, 20 mW
- 9 µm SM Fiber
- FC/PC connector
- Built-in PD
- Heat Sink





Description

SPL980-20-9-PD is an infrared pigtailed laser diode with **bult-in monitor photodiode**, typically emitting at 976 nm with an output power of 20 mW. It comes in a coaxial package with integrated heat sink, and **9 µm single mode fiber** with FC/PC connector. Variants without heat sink and different types of connectors are optionally available.

Maximum Ratings*

Dovometer	Cumbal	Val	Hoit		
Parameter	Symbol	Min.	Max.	Unit	
Reverse Voltage	V_{R}		2.0	V	
PD Reverse Voltage	V_{RPD}		30	V	
Operating Temperature	T_{OPR}	- 10	+ 40	°C	
Storage Temperature	$T_{ m STG}$	- 40	+ 85	°C	
Soldering Temperature (t _{max.} 3s)	T_{SOL}		+ 260	°C	

^{*} Operating close to or exceeding these parameters may damage the device

Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Тур.	Max.	Offic
Peak Wavelength		λ_{P}	960	976	990	nm
Spectral Width		λ_{Δ}		/		nm
Output Power		Po		20		mW
Operating Voltage		V _F		1.7	2.2	V
Threshold Current		<i>I</i> th		15	30	mA
Operating Current		lo		65	75	mA
PD Monitor Current		<i>I</i> PD		0.2		mA
Fiber Spec.	Туре					
	Core diameter		9			μm
	N.A.		0.12			
	Connector		FC/PC*			
	Length			80		cm

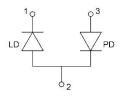
^{*} FC/APC, SC, SMA905 available on request

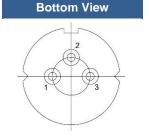
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Electrical Connection

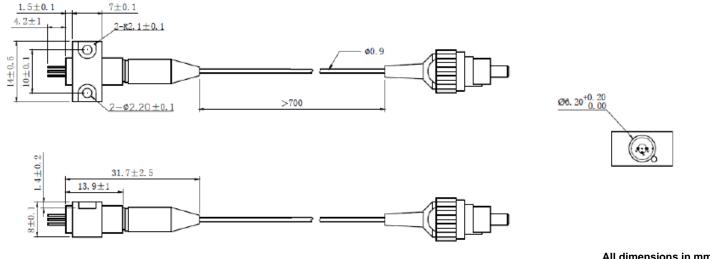
Pin Configuration* Pin# **Function** Pin 1 LD cathode LD anode, PD cathode Pin 2 [case] Pin 3 PD anode







Outline Dimension



All dimensions in mm

Precautions

Safety

Laser light emitted from any laser diode may be harmful to the human eye. Avoid looking directly into the laser diode's aperture. The use of optical lenses will increase eye hazard



ESD Caution

Always do handle laser diodes with care to prevent electrostatic discharge. We advise to wearing wrist straps, and grounding all applicable work surfaces, when handling laser diodes

Operating Considerations

Usage of current regulated drive circuits is mandatory We advise to operate this laser diode with a current source and heat sink, and to never exceed the maximum specifications as outlined in this datasheet.



2 www.roithner-laser.com

^{*} subject to change

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The above specifications are for reference purpose only and subjected to change without prior notice